

Friday October 18, 2024
AT PACIFICON !
Marriott Hotel San Ramon
Salon E 7pm

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THIS MONTH...AT PACIFICON!

Innovative Operational Op Amp Design

by Ed Fong, WB6IQN



We are now all familiar with the NanoVNA and the TinySA. There are also numerous digital scopes now that are very affordable. An example is the DSO03D12 - a dual trace color portable oscilloscope with probes that easily measures in real time up to 150 MHz. This instrument also has built in DVM and signal generator – all for less than \$150.00.

These instruments would have cost in the thousands of dollars 10 years ago. Only the most serious hams own expensive HP or Tektronix equipment. So why are they now all so affordable?

The answer can be summarized in one sentence - innovative operational (op amp) design. Ed will explain this new topology in a non-mathematical format. You will not find this configuration in many amplifier text books.



Our in-person meeting will also be held virtually, via the Zoom video system. The meeting access ID and password will be distributed via groups.io email announcement.



We have many accomplished and experienced club members. After all, we are an ARRL Special Service Club! The club is looking for amateur radio or communications topics that you or someone you know could present at a future club meeting.

An alternative might be several short presentations on different topics made by multiple persons.

Please direct your suggestions to our Vice President, Ed Morales, KJ6KYT at edmorales928@gmail.com.

Your contribution is vital for the continued success of MDARC. We are eager to hear from you!

ALL MEMBERS ARE INVITED TO JOIN THE FREE CLUB E-MAIL GROUP AT:

<https://groups.io/g/MDARC>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730 info@mdarc.org

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Ed Morales, KJ6KYT
Secretary - Brian Lotter, KM6NGS
Treasurer - Barbara Whysong, K6WHY
Emergency Coordinator - Larry Loomer, KI6LNB

Directors At Large
Trevor Hall, WA6JAU Cal Vasquez, K6VT
Mark Fehlig WA6NGC Mike Warren, W6MEW

Membership Chair - Jan Kulisek, KM6NFC
mdarcmembership@mdarc.org

PACIFICON 2024

Chair: Julie Mah, WJ8MAH
Registration: Jim Marchetti, KD7G
Treasurer: Barbara Whysong, K6WHY
Secretary: Jeff Mah, N8MAH

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - **vacant**
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Grant Bowman, K6CBK
Education & Training - **vacant**
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Programs - Ed Morales, KJ6KYT
Public Service - Larry Loomer, KI6LNB
Radio Equipment Lending - Cal Vasquez, K6VT
Refreshments - Elizabeth Styles, KG6HLV
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Tittle, K6SOE
Volunteer Classes - Dick Wade, WM6G
W6CX Repeater Trustee - Jim Tittle, K6SOE
W6LGW Callsign Trustee - Larry Loomer, KI6LNB

The Carrier Newsletter
Editor - Matthew G. Vurek, N4DLA
n4dla_cs245@yahoo.com
Proofreader - Larry Loomer, KI6LNB
Printing & Distribution - Jan Kulisek, KM6NFC
Digital Amateur Television Help and Information:
Fred Coe, WB6ASU wb6asu@icloud.com

President's Message



MDARC Family,

Do you know what has been the saddest revision to the MDARC Bylaws? It is an amendment that is only 29 words long, warranted its own Section and was approved unanimously at our general membership meeting on August 16, 2024. And oh for sure, this amendment was sadly needed.

Section 5. Office Vacancies

In the event that an office is vacant post-election, the Board of Directors may appoint a duly qualified regular Club member to fill that office.

So why was this amendment needed? After all, our Bylaws already had a “replacement” provision in place with Section 6.4 ...

The Board of Directors may appoint a duly qualified regular Club member to fill out the unexpired term of any office vacated, including but not limited to, by expiration of term, resignation, death or removal.

BUT what it didn't cover were situations in which there were no candidates on the MDARC election ballot. It is a not only a sad time for MDARC, but also for any club that must resort to a contingency in their By laws to account for lack of willingness of the membership to step up and run for office.

I'll be frank. I see this situation as a symptom of a club that is not healthy. We have over 350 members who are eligible to serve on the Board and each year we barely have enough...or not enough... to fill nine positions. Sad!

This year and prior years we have been fortunate to have incumbents on the ballot, but typically these incumbents have been running unopposed. So, yes, we squeak by each year with filling or nearly filling all the positions. But, a healthy club has multiple candidates running for each office. This gives members the opportunity to lead the club and provides more choices for the membership. All clubs welcome and need “new blood” in order to grow and better meet the needs of the members.

So, with these thoughts in mind, I want to encourage you to nominate candidate to fill the ballot. Please consider nominating yourself. The next page describes the election process.

73, Larry Bradley, KK6QPE, MDARC President

CLUB OFFICER ELECTIONS

Title Name	Term
President	One year
Vice President	One year
Secretary	One year
Treasurer	One year
Emergency Coordinator	One year
Director at Large	Two years
Director at Large	Two years

Any Election Committee member can receive nominations, either verbally or by email.

Election Committee members

Name	Call Sign	Email
Larry Bradley	KK6QPE	KK6QPE@gmail.com
John Rio	N6RIO	N6RIO@yahoo.com
Benjo Sevilla	KA6BJS	KA6BJS@gmail.com
Raquel Sevilla	K1RCS	Raquel.c.sevilla@gmail.com

Nominee Requirements:

- 1) Must hold a United States Amateur Radio license
- 2) Must be a current member of MDARC
- 3) Must provide consent to the nomination

Who may nominate? Any MDARC member. When do nominations close? October 31, 2024

How do members vote? Shortly after October 31, 2024, an electronic ballot is sent to all current (2024) members that have an email in the Membership Directory. Those who requested a printed CARRIER, will receive a printed ballot via USPS.

Note: If family members share the same email, they will get only one ballot in which case they may request printed ballots or better yet, update the Membership Directory with separate email addresses.

Ballots must be received on or by November 13, 2024.

(continued on following page)

Hear Ye, Hear Ye



ELECTION 2024

Office	Candidate (* indicates incumbent)
President (vote for one)	Larry Bradley, KK6QPE*
Vice President (vote for one)	
Secretary (vote for one)	Brian Lotter, KM6NGS*
Treasurer (vote for one)	Barb Whysong K6WHY*
Emergency Coodinator (vote for one)	Larry Loomer, KI6LNB*
Director at Large (vote for two)	Mike Warren, W6MEW* John Rio, N6RIO Cal Vasquez, K6VT*

PUBLIC SERVICE EVENTS

October 19 Diablo Summit Stomp, Walnut Creek (Pacificon is on this date)

October 20 Cycle of Hope, Dublin

November 16 Lake Chabot Trail Run, Oakland Hills

Contact Larry Loomer larylloomer@yahoo.com for signup information

Saturday, October 19, 2024, is the next Contra Costa County public service event of the 2024 season, the Diablo Summit Stomp

This running race event will begin at Castle Rock Park in Walnut Creek and run to the top of Mt. Diablo and back to Castle Rock Park.

The ham assignments are at various elevations, at rest stops and at strategic points on the trail, just like with the Mt. Diablo Challenge event. Most assignments are drive-in to your location. Some assignments are hike-in, for the outdoors persons in the group.

The timing is variable, depending where on the mountain your assignment is located. Start times vary from 0700 to 0900 hours. End times vary from 1100 to 1500 hours. Assignments can be made on the basis of the time that you are available.

What time frame will work for you?

If you would like to volunteer as a ham in the event, email larylloomer@yahoo.com with your name and call sign.

I look forward to working with you soon. Let me know if you have any questions.

73, Larry, KI6LNB



PACIFICONSM 2024

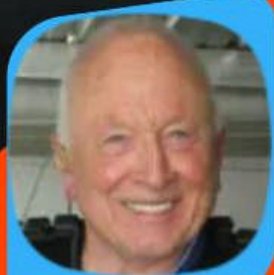
ARRL Pacific Division Ham Radio Convention
Produced by the Mount Diablo Amateur Radio Club



parachute mobile mission 47

19 OCTOBER 2024
SATURDAY

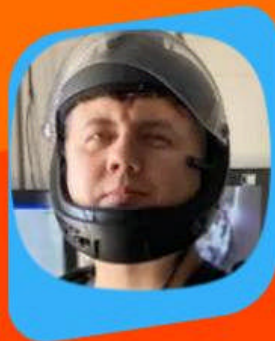
QSO Frequency: 147.570



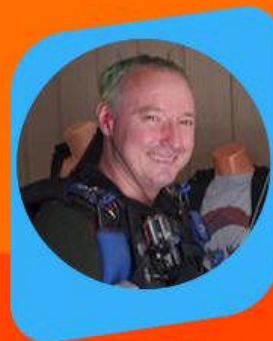
Mark Meltzer
AF6IM



Rob Fenn
KC6TYD



Dmitrii Kalugin-Balashov
KN6MMW



Micheal Gregg
KF6WRW

Our 15th Anniversary!!

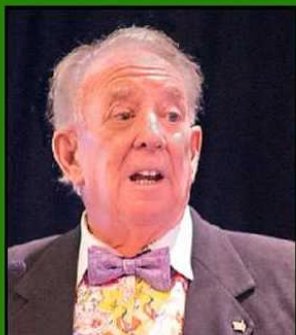
Live streaming via zoom.

Track each skydiver on aprs.fi.

GOTA station at our Pacificon table.

For updates: parachutemobile.org or on Facebook

PACIFICONSM 2024



All Day Friday
Antenna Seminar

Saturday Breakfast
with Gordon West

Friday evening
MDARC Meeting
featuring Ed Fong



Latest
Ham Radio
Equipment for Sale

Ham License Testing

Get-On-The-Air
Special Events Station



Outstanding
Technical Forums

Sunday
Swap Meet

Electronics
Kit Building

Scout JOTA-JOTI &
Merit Badge Class

ARRL PACIFIC DIVISION HAM RADIO CONVENTION

*Experience three great
days of activities at Pacificon!!*

Produced by the Mt. Diablo Amateur Radio Club

October 18, 19 & 20, 2024
San Ramon Marriott
2600 Bishop Drive
San Ramon, California 94583

**GENERAL ADMISSION:
\$35 IN ADVANCE - FOR ALL 3 DAYS!**

*Tickets at the door will cost \$45; 17 years old & under are free;
College Students with valid student ID (25 & under): \$5*

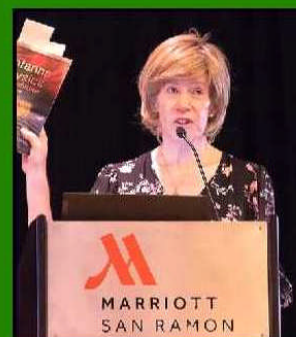
*** Some events have additional cost ***

If you need hotel accommodations
either reserve your room on-line at
www.pacificon.org, or call Marriott Hotel Reservations
at 925-867-9200, by Sept 25, 2024 (per availability)
to ask for the Special Pacificon rate of \$167/night

**Go to the Pacificon Website for
Events - Schedules - Registration
WWW.PACIFICON.ORG**

*** Events are subject to change – check website **
For current “Pacificon Rules and Policies” see website*

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Gordon West's
Ham Instructor Academy

Saturday Banquet
with Keynote Speaker

One Day Technician
License Prep Class

T-Hunts!
Saturday & Sunday



MDARC General Meeting Minutes August 16, 2024

Held as hybrid Zoom and in-person meeting

1. Call to Order: The meeting was called to order at 7:00 pm by MDARC president Larry Bradley KK6QPE.

a. Welcome to all: Larry KK6QPE welcomed all attendees.

b. Pledge of Allegiance: This was made by attendees.

c. Safety, Exits, Rest Rooms: Larry KK6QPE indicated the positions of the emergency exits and restrooms.

d. Acknowledge new members: a new member, Gary Gomes KO6FCZ made his first visit.

e. Acknowledge visitors: New visitors were welcomed.

2. Approval of Minutes from the Last Meeting: The minutes were approved without objection.

3. Officer Reports:

a. President: Larry Bradley KK6QPE had no report.

b. Vice President: Ed Morales KJ6KYT Ed reported that he is going to schedule a program committee meeting for August 28, on Zoom around 6:30 pm and invited the membership to attend. He said that it is critical at this point because he will likely not be VP or Program chair next year.

c. Secretary: Brian KM6NGS had no report.

d. Treasurer: Barbara Whysong K6WHY displayed the following report [AT LEFT].

e. Emergency Coordinator: Larry KI6LNB reported that there will be a North Coast exercise involving 16 counties from Northern California on Thursday August 22nd. They will be checking for interoperability for the North Bay and 13 other counties. They will be using Winlink HF and VHF. They need one person for every city and Contra Costa County will be included.

4. Directors at Large.

Directors at Large: Mike W6MEW and Trevor WA6JAU had nothing to report. Mark Fehlig WA6NGC and Cal K6VT were absent.

5. Committee Reports – Standing:

a. Auction: Report not scheduled or unavailable.

b. Outreach Coordinator: Report not scheduled or unavailable.

c. Technical: There was no report.

d. Digital Media: Grant Bowman, K6CBK reported that the public service events have been updated and asked for comments about the website.

e. Education and Training: Larry KK6QPE stated that they have completed the second eight-week Technician course for this year and that license testing will be done next week.

f. Pacificon: Pete Harris KE6ZIW gave a brief overview of the upcoming Pacificon event (October 18-20) and advised people to go to the Pacificon.org website to register for, and to find more details about the event. MDARC has put this event on for the past 32 years. Larry KK6QPE added that the vendor hall opens at 3 pm on Friday October 18.

g. Membership: Jan KM6NFC, reported that there are 287 paying members and 49 who haven't renewed yet. Jan will send out reminders via email and postcard. We had 298 members at this time last year.

h. Public Service: Larry KI6LNB announced some of the upcoming events. A full list of events can be found under the Public Service tab on the MDARC.org website.

Balance Sheet

July 31, 2024

ASSETS

Current Assets

Checking/Savings

Equipment Self-Ins Fund 63,790.01

MDARC Savings 28,431.65

MDARC Checking 48,322.55

PACIFICON 15,032.14

Total Checking & Savings 155,576.35

Total Current Assets 155,576.35

TOTAL ASSETS 155,576.35

LIABILITIES 0.00

NET ASSETS 155,576.35

Increase/Decrease from prev month 672.00

- i. Vehicle Committee [MDARC-1) Report not scheduled or unavailable.
 - j. License Testing: Larry KI6LNB reported that, at tonight's testing 2 people passed their Technician test and 5 people passed their General test. He noted that one person had attempted to pass all three tests in one sitting but had missed the Extra qualification by 2 questions. There will be license testing
 - k. Trailer Committee: Report not scheduled or unavailable.
 - l. Field Day: Report not scheduled or unavailable.
 - m. Holiday Banquet: Report not scheduled or unavailable.
 - n. Election Committee: Larry KK6QPE announced that the election committee has been empaneled. It is comprised of Larry KK6QPE, and two new members, John N6RIO and Benjo KA6BJS who will be pairing with 2 members from prior years to learn the procedures. The By-laws require that this be done by the August General Meeting.
 - o. Program Committee: Ed dealt with this in section 3b above.
- Larry KK6QPE announced that the club has received an anonymous donation of \$3,500. He reminded anyone else who would like to make a donation, that donations are tax deductible. He reported that the Board had decided that the \$15 Technician Test fee, with one free retest, will be funded by MDARC, from the above donation, up to a total of \$1,000.

6. Unfinished Business: None

7. New Business

- a. Vote for amendment to By-laws: Larry announced that the proposed amendment has been published in the July and August editions of the Carrier. Larry also sent out the amendment via email at groups.io to the membership. He stated that it has to pass by two thirds of the members present at the meeting. A total of 37 members were present, in person and on Zoom. The members voted unanimously in favor of the motion.

8. Adjourn Business Meeting: The meeting was adjourned at 7:33 pm.

Respectfully submitted by
Brian Lotter, KM6NGS
Secretary, on September 15, 2024

MDARC Board of Directors Meeting September 2, 2024

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:00 pm by Larry Bradley, KK6QPE after it was determined that there was a quorum for conducting Club business.

2. Roll Call: Attendees via Zoom screen shots: **Officers:** Larry Bradley KK6QPE, President; Ed Morales KJ6KYT, Vice President; Brian Lotter KM6NGS, Secretary; Barbara Whysong K6WHY, Treasurer; Larry Loomer KI6LNB, Emergency Coordinator; Mike Warren W6MEW, Director at Large; Trevor Hall WA6JAU, Director at Large; Mark Fehlig WA6NGC, Director at Large; Cal Vasquez K6VT, Director at Large. **Committee Chairs/Coordinator:** Grant Bowman K6CBK, Digital Media Chair; Julie Mah WJ8MAH PACIFICON Chair **Guests:** Benjo Sevilla KA6BJS; Charles K3CMK; Cathi K2CJW; Jim Marchetti KD7G; John Rio N6RIO; Terry Buxton KK6KGX; Tom Deeble KA6SIP, Debbie Deeble KN6DOM.

3. Approval of Minutes from Last Meeting: Mike W6MEW, seconded by Ed KJ6KYT, proposed a motion to approve the minutes. The minutes of the August 5th Board of Directors Meeting were unanimously approved.

4. Adopt Tonight's Agenda: Tonight's agenda was adopted.

5. Officer reports:

- a. President Larry Bradley KK6QPE – Reported that he will away starting September 9th but added that he will be available on the internet.

(continued on following page)

- b. Vice-President Ed Morales KJ6KYT – Reported that he had convened a Zoom meeting concerning Programs and that he will be sending out an email to seek a Programs chair. He added that he is planning to support the Programs chair person in 2025.
- c. Secretary Brian Lotter KM6NGS – Had no report.
- d. Treasurer Barbara Whysong K6WHY – Barbara showed her report dated July 31st 2024.

Balance Sheet
August 31, 2024

ASSETS

Current Assets

Checking/Savings

Equipment Self-Ins Fund	64,028.93
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MDARC Savings	28,433.59
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MDARC Checking	56,011.87
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PACIFICON	5,948.34
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Total Checking & Savings	154,422.73
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Total Current Assets	154,422.73
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TOTAL ASSETS	154,422.73
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LIABILITIES	0.00
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NET ASSETS	154,422.73
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Increase/Decrease from prev month	-1,153.62
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Barbara stated that she will send out the rest of the information later this week. Larry KK6QPE asked the Board if it would be acceptable to receive the information via email. There were no objections. Barbara added that she will not be able to attend the October Board meeting since she will be out of town.

Emergency Coordinator Report: Larry KI6LNB had no report.

7. Directors at large reports:

Mike Warren W6MEW – Had no director's report.

Trevor Hall WA6JAU – Had no director's report

Mark Fehlig WA6NGC – Had no director's report

Cal Vasquez K6VT – Cal reported the Red Cross has offered us some equipment which they need to dispose of. He offered to take care of picking up and disposing of it. Some of the equipment will go into the radio lending library, some will be sold and some will be recycled.

It was agreed that Cal can keep some of it, for his needs, as compensation for his work on this.

8. Committee Reports:

a. Auction: Vacant. No report was expected.

b. Communications Trailer: There was no report.

c. Digital Media: Grant K6CBK reported that the websites are up

to date except that he needs to make some changes to the PACIFICON website.

f. Education and Training: Larry KK6QPE reported that the second Technician class for 2024 and one GOTA class have been completed and that there will be another GOTA class. There is nothing scheduled for September 10th.

g. Election Committee: No report was expected.

h. Field Day: There was no report.

i. Holiday Banquet: No report was expected.

j. License Testing: Larry KI6LNB reported that there was nothing new since the General Membership meeting. He added that the ARRL now sends only one of each item like the question papers and marking templates required for license testing. We normally need 6 copies so we are now required to copy the materials. ARRL is moving towards electronic testing but Larry KI6LNB does not have any details yet.

k. Membership: There was no report from Jan KM6NFC.

l. Mesh Committee: Mike W6MEW had nothing new to report. Larry KK6QPE reported that he is now hitting Table Top while he has made no changes on his end. He also plans to set up a VOIP telephone.

m. Outreach: Dick Wade WM6G was not present.

n. PACIFICON: Julie WJ8MAH reported that orders for volunteer shirts closed yesterday.

o. Programs: Ed KJ6KYT had nothing to add to what he submitted under 5b above.

p. Public Service: Larry KI6LNB reported upcoming events as follows; Save Mount Diablo dinner event next Saturday, Fire trails 100 around Lake Chabot and the Mothers Against Drunk Driving (MADD) around Civic Park in Walnut Creek on the 29th.

q. Radio Lending Library: This was covered under Cal's report in section 7 above.

r. Rocky Ridge Repeater (Tech): Jim K6SOE was absent.

s. Scholarship: No report was expected.

(continued on following page)

9. Future Meetings:

General Meeting: 09/20/2024 will be a hybrid, in-person and online. Board Meeting 10/07/2024 on Zoom only.

10. Unfinished Business:

10.1 Status report on revising Membership database for processing and tracking payments, new payment gateway status: Barbara is still waiting for information from Jan KM6NFC and there was no further to report.

10.2 Pacificon Funds Transfer Policy: This item is now closed. In answer to Trevor's question at the last Board Meeting, Barbara stated that there is no maximum amount of money that would cause us to lose our 501c3 status. In fact, we can make a profit, and it is recommended that we put profits into a reserve fund to be able to cover up to 3 years of expenses. Any profits that we do make can be spent on programs that are aligned with our mission. She also stated that all income and expenditure should now be going through the MDARC account. She is planning to spend the remaining PACIFICON balance down, and close the PACIFICON account by the end of this year.

10.3 Financial Audit: Barbara presented the following financial audit process, and asked for the Board's approval before proceeding with the audit;

Goal

The goal of the financial audit is to provide transparency into the completeness, efficiency and accuracy of the financial statements provided to the Board of Directors.

Purpose of audit

The reasons for a financial audit include but are not limited to:

Maintaining Board of Directors confidence in the finances and processes

Inspiring and maintaining donor trust

Demonstrating financial transparency

Audit committee

The Committee is appointed by the MDARC Board of Directors and consists of 3 members.

The MDARC Treasurer, and the Pacificon Treasurer if separate, meets with the Committee members to answer questions and provide clarification or additional information.

The members of the Audit Committee, with input from the Treasurer, will agree on scope and process of the audit, and records to be examined.

The Board of Directors determines the frequency of audits. The members of the Audit Committee determine the timeline of the audit, and the format of the resulting report.

audit process

The Audit Committee members and the Treasurer will meet in person and virtually and examine the materials provided by the Treasurer.

The Treasurer will provide paper and digital files and access to the online banking records. Copies of previous audits may be provided for reference.

The Committee will include the following in their assessment:

Recording of activity in the MDARC and Pacificon accounts

Documentation of income and expenses and supporting records

Financial reports accurately reflect financial activity

Process efficiency and inefficiencies

Meeting compliance requirements (Federal and State filings)

Opportunity for improvements in record keeping

Recommendation for any needed procedures for monitoring

Evidence of fraud

Product:

The Audit Committee will produce a report to the Board of Directors that includes:

Objectives of the audit

Description of the process followed

Records examined

Whether the financial statements fairly and accurately represent the financial activity and position of the club.

Ed KJ6KYT, seconded by Mike W6MEW, proposed a motion to approve the above audit process.

The motion was approved unanimously.

(continued on following page)

10.4 Asset List: Barbara K6WHY will work on this at a later date. In the meantime, Trevor WA6JAU will make a list of the projectors, with serial numbers, when he takes them out of storage for PACIFICON, even though they cost less than \$2500, which is the minimum amount required for the list of assets.

10.5 "\$3500 anonymous donation to MDARC: What to use it for, etc.: We have allocated \$1,000 for the Technician License of \$15/test. We still need proposals on how to spend the remaining \$2,500.

10.6 Emergency Preparedness Fair on 09/05/2024, 4pm to 7pm, Todos Santos Plaza, Concord: We are sharing a booth with CARES. The City of Concord will supply all of the facilities for the booth.

10.7 Need presenters for the MDARC Emergency Communication and Auxiliary Amateur Radio presentations: There is no speaker for 09/10/24 but on 09/17/24, Jim Crites W6JIM will be doing a talk on CW. This will be the last meeting of the training group for 2024. The next event will be a Technician class in 2025.

10.8 The 2024 ARRL Repeater Directory omitted all the MDARC analog FM repeaters as well as the DATV repeater. Only the MDARC digital repeaters were listed. There was no further discussion on this point.

10.9 Election Committee formation: The election Committee has been formed and is comprised of Larry KK6QPE, Benjo Sevilla KA6BJS and John Rio N6RIO.

11. New Business:

11.1 PACIFICON Registration status: Larry noted that there has been some concern about the progress on registration and asked Julie Mah WJ8MAH and Jim Marchetti KD7G for their comments. Jim acknowledged that he is behind on the necessary tasks and asked for help in understanding everything that needs to be done. Tom and Debbie Deeble expressed their concern that we are way behind where we normally would be at this time. Since Tom has medical appointments, does not have a lot of energy to dedicate to this, and also since he will not be available after September 30th they are very concerned that it might not be possible to get everything done in time. After a lot of discussion on the details of what needs to be done, a number of people offered help. In closing, Julie stated that she will follow up with Jim.

11.2 Accounting Software review and expectations: Barbara K6WHY reported that she had investigated six online accounting products. She talked to, had demos from and looked at online processes for Sage, Springly, QuickBooks and NetSuite, which were all set up for, for-profit companies and modified to do nonprofits, which made them less appropriate for our needs. The other two were written specifically for non-profits, namely, aplos, and araize FAST-FUND. aplos was written specifically for churches and doesn't meet our needs very well. aplos costs \$189/ month. araize FASTFUND is much easier to use for our purposes and costs 45/month. araize FASTFUND also prepares the data for the 990 Federal Tax forms. We currently pay around \$700/ year for our accountants to do that. araize FAST-FUND does not do the State Tax forms but Barbara says that the State form is one page and very easy for her to do manually. araize FASTFUND also has a fundraising product which costs \$22/month. It will handle fundraising campaigns with up to 2,500 names. It could be used for our classes and for PACIFICON sales. araize FASTFUND also provides a lot of support by CPA's. For these reasons, Barbara recommends that we choose araize FASTFUND. Julie Mah questioned whether we need software for our simple accounting needs so Barbara invited her to look over the spreadsheets to see how much work is involved in doing them. Cathi K2CJW added that, given her experience as our treasurer, she believes that an accounting software package is the best way to go. Larry KK6QPE added that, we need to use an accounting software package because, using spreadsheets makes our accounting non-compliant. Barbara added that spreadsheets are very time consuming and prone to errors. In response to further questions from Larry KK6QPE, Barbara said that she would run the new and old systems in parallel for two months and will start using only the new system in January 2025. She also agreed to find out if there are any cancellation costs in case, we find that it doesn't work for us. Barbara requested that people with questions should submit them to her so that she can get answers in time for the October Board Meeting.

11.3 MDARC promotional brochure: Barbara showed a promotional brochure that she has created for MDARC. Barbara offered to print 30 copies, for Thursday evening, so that people can review the content for potential changes. Larry said that she will be reimbursed for that. Larry polled the board and got unanimous agreement for the above proposal.

11.4 Does the Board want to pay an extra 1.75% in fees to Square to have the proceeds immediately deposited in the bank, or have the proceeds deposited in the normal 1-2 days later? After some discussion, it was agreed that 1-2 days later is adequate for our needs and the 1.75% savings are better for us.

12. Good of the order: Nothing was heard. **13. Adjournment:** Mike W6MEW, seconded by Cal K6VT, proposed a motion to adjourn. The motion was carried unanimously. Meeting Adjourned at 8:45 pm.

Respectfully submitted by Brian Lotter KM6NGS Secretary, October 1st 2024. These meeting minutes were signed digitally due to the digital meeting.

ESTATE SALE

Astron VS-35M 2 to 15 volts 35 amp power supply \$160

Astron RS-35M 35 amp power supply \$180

Kenwood IF-232C computer interface \$20

Kenwood TS-2000 HF/VHF/UHF Transceiver \$800

Kenwood SP-23 external speaker for TS-450 \$100

Yaesu G-800DXA rotator controller only (no rotator) \$80

Diamond MX-72H HF-VHF/UHF Duplexer \$30

Vibroplex Keyer \$90

McElroy semi-automatic telegraph key \$150

Reasonable offers for any of the above considered. Contact:

Kim Leong, N6YJ, 925-575-1941 or n6yj.qth@gmail.com

Low-Cost Receivers for Digital Amateur Television Reception Available For Sale from Club Member KA3VDT

These are DVB-S2 receivers pre-programmed for our club's 1.2 GHz W6CX DATV repeater frequencies

Connect a 1.2 GHZ directional antenna, aim it at Mount Diablo's North Peak and watch the over the air repeater signal on your video monitor

Please contact Will Roberts at ka3vdt@gmail.com or visit

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To purchase a DATV transmitter, contact Fred Coe, WB6ASU, at wb6asu@icloud.com

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FTM-500DR | C4FM/FM 144/430MHz Dual Band Xcvr

- Front Firing Acoustically Enhanced Speaker System • True Dual Band Operation, C4FM/C4FM Digital D-D Dual Receive • 2.4" High-Resolution Full-Color Touch Panel Display • Built-in High Precision GPS Receiver • Wireless Operation Capability with Optional Bluetooth® Headset



FTDX10 | HF/50MHz 100 W SDR Transceiver

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FT-891 | HF+50 MHz All Mode Mobile Transceiver

Stable 100 Watt Output • 32-Bit IF DSP • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



FTM-300DR | C4FM/FM 144/430MHz Dual Band

- 50W Output Power • Real Dual Band Operation • Full Color TFT Display • Band Scope • Built-in Bluetooth • WIRE-X Portable Digital Mode/Fixed Mode with HRI-200



FT-70DR C4FM/FM 144/430MHz Xcvr

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



FT-991A | HF/VHF/UHF All Mode Transceiver

Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



FT-5DR C4FM/FM 144/430 MHz Dual Band

- High-Res Full-Color Touch Screen TFT LCD Display • Easy Hands-Free Operation w/Built-In Bluetooth® Unit • Built-In High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Supports Simultaneous C4FM Digital • Micro SD Card Slot



FTDX101D | HF + 6M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled -70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



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FTM-6000R | 50W VHF/UHF Mobile Transceiver

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(800) 444-4799

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(800) 327-1917

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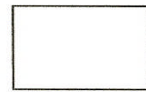
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W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.78- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Wednesday 8:00pm Delta Amateur Radio Club Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Digital Amateur Television Net 147.060+

Club Voice Repeaters

147.060 MHz + / PL 100Hz

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

DMR Repeater 144.925 offset plus 2.5 MHz color code 1

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <http://w6cxatv.mdarc.org>

YouTube Channel: [Media MDARC](#)

Contra Costa County Emergency Communications Nets Every Thursday

6:30 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

October and November 2024 Club Calendar

Friday October 18, 2024	7:00pm	MDARC General Meeting - AT PACIFICON ! Marriott Hotel Salon E, San Ramon
Saturday November 2, 2024	8:00am	MDARC Technical Committee Meeting - VIA VIDEO CONFERENCE
Monday November 4, 2024	6:30pm	MDARC Board of Directors Meeting - VIA VIDEO CONFERENCE
Friday November 15, 2024	7:00pm	MDARC General Meeting - Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette